

# Executive Summary Report

## SMOG CHECK Statewide

July 2006

### 1. Testing Volume

	Total	Failed	Percent (%) Fail
Initial Test	777,326	101,658	13.08%
Total	907,379	131,887	14.53%

### 2. Certification Volume

	Cert. Issued	Percent (%) Cert. Issued	No Cert.	Percent (%) No Cert.
Initial Test	661,385	85.08%	115,941	14.92%
Total	754,485	83.15%	152,894	16.85%

### 2a. Certification Volume (Test Only)

	Cert. Issued	Percent (%) Cert. Issued	No Cert.	Percent (%) No Cert.
Initial Test	374,893	84.63%	68,063	15.37%
Total	431,719	83.50%	85,302	16.50%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Fail
Gross Polluters	19,794	2.55%
All Emissions	63,422	8.16%
All Visual	10,984	1.41%
All Functional	32,329	4.16%
OBDII	24,904	3.20%
Overall	101,658	13.08%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	G.P.	Percent (%) G.P.
Enhanced	620,436	82,639	13.32%	15,756	2.54%
Partially Enhanced	35,529	5,429	15.28%	1,076	3.03%
Basic	69,451	8,016	11.54%	1,879	2.71%
Change of Ownership	5,681	843	14.84%	265	4.66%
No Program	5	1	20.00%	0	0.00%
Unknown Program	46,224	4,730	10.23%	818	1.77%
Total Program Area	777,326	101,658	13.08%	19,794	2.55%

### 5. Initial Test Failures by Station Type

Station Types	All Tests Performed	Failed	Percent (%) Failed	G.P.	Percent (%) G.P.
Test Only	442,956	66,364	14.98%	13,982	3.16%
Regular	285,059	28,956	10.16%	4,575	1.60%
Basic Area Dealer	5,268	268	5.09%	50	0.95%
Gold Shield in Enhanced Area	31,298	3,966	12.67%	683	2.18%
Gold Shield in Basic Area	6,298	963	15.29%	223	3.54%
Gold Shield in COO Area	3,933	530	13.48%	174	4.42%
Business Fleet	9	0	0.00%	0	0.00%
Permanent Fleet Registered	170	7	4.12%	2	1.18%
Referee	866	447	51.62%	92	10.62%
Government Fleet	1,468	157	10.69%	13	0.89%
Unknown Privilege	1	0	0.00%	0	0.00%
Total	777,326	101,658	13.08%	19,794	2.55%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Cert. Issued
Volunteers	213,082	187,050
Directed Vehicles	229,874	187,843
Total	442,956	374,893

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Cert. Issued
Volunteers	41,169	35,355
Directed Vehicles	360	87
Total	41,529	35,442

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## 6. Initial Tests by Vehicle Model Year

Model Year	Initial Test	Failed Overall	Percent (%) Fail Overall	Percent (%) Fail Emiss.	Percent (%) Fail G.P.	Percent (%) Fail Funct.	Percent (%) Fail Visual	Percent (%) Fail OBDII
1969	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
1971	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
1972	1	1	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%
1974	13	3	23.08%	15.38%	0.00%	7.69%	7.69%	0.00%
1975	23	4	17.39%	13.04%	0.00%	8.70%	0.00%	0.00%
1976	1,760	500	28.41%	22.10%	11.36%	15.51%	8.52%	0.00%
1977	2,478	683	27.56%	20.58%	9.00%	14.04%	7.95%	0.00%
1978	2,900	789	27.21%	21.07%	10.03%	13.48%	7.97%	0.00%
1979	2,886	878	30.42%	25.33%	12.68%	14.80%	7.83%	0.00%
1980	1,957	578	29.54%	23.40%	11.65%	16.30%	8.79%	0.00%
1981	2,503	778	31.08%	26.53%	12.43%	15.66%	8.71%	0.00%
1982	2,734	860	31.46%	25.49%	12.00%	16.28%	8.16%	0.00%
1983	4,333	1,295	29.89%	24.90%	11.84%	14.59%	7.22%	0.00%
1984	7,261	2,295	31.61%	26.97%	13.21%	15.80%	6.83%	0.00%
1985	10,069	2,898	28.78%	23.98%	11.41%	14.28%	5.78%	0.00%
1986	14,381	3,733	25.96%	21.03%	9.72%	12.80%	4.65%	0.00%
1987	16,508	4,669	28.28%	23.59%	9.55%	13.41%	4.20%	0.00%
1988	20,617	5,056	24.52%	19.88%	7.50%	11.70%	3.53%	0.00%
1989	25,944	5,580	21.51%	17.12%	6.12%	10.35%	2.89%	0.00%
1990	29,653	5,855	19.75%	15.84%	5.46%	8.85%	2.03%	0.00%
1991	33,232	5,827	17.53%	13.81%	4.47%	7.70%	1.78%	0.00%
1992	32,562	5,213	16.01%	12.71%	3.87%	6.65%	1.56%	0.00%
1993	38,767	6,822	17.60%	14.39%	3.21%	6.56%	1.52%	0.00%
1994	49,807	6,658	13.37%	10.42%	2.16%	5.03%	1.24%	0.00%
1995	41,119	5,219	12.69%	9.46%	1.99%	5.01%	1.27%	0.00%
1996	61,270	8,779	14.33%	5.89%	0.79%	1.23%	0.78%	9.18%
1997	45,519	5,998	13.18%	4.86%	0.82%	1.18%	0.74%	8.81%
1998	81,214	6,838	8.42%	2.67%	0.40%	0.62%	0.46%	5.78%
1999	48,183	3,752	7.79%	1.90%	0.35%	0.57%	0.40%	5.72%
2000	130,097	7,065	5.43%	0.87%	0.14%	0.47%	0.29%	4.21%
2001	20,640	1,147	5.56%	0.71%	0.11%	0.46%	0.22%	4.27%
2002	21,492	877	4.08%	0.46%	0.12%	0.32%	0.19%	3.08%
2003	9,494	331	3.49%	0.28%	0.05%	0.17%	0.19%	2.57%
2004	6,603	215	3.26%	0.32%	0.12%	0.18%	0.18%	2.64%
2005	6,601	253	3.83%	0.20%	0.03%	0.23%	0.21%	3.12%
2006	4,532	190	4.19%	0.42%	0.15%	0.20%	0.38%	3.49%
2007	170	17	10.00%	0.00%	0.00%	0.59%	0.00%	9.41%
2008	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Model Year	777,326	101,658	13.08%	8.16%	2.55%	4.16%	1.41%	3.20%

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**7. Referee Activity**

	Certificates Issued
Certificate of Compliance	722
Certificate of Non Compliance	3
Parts Cost	85
Hardship Extensions	75
Exempt Vehicle	27
Exempted by Directive	149
Parts Exemption	5
Unknown Outcome	0
	<b>1,066</b>

**8. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,325
Stations Locked-Out at Least Once	107
Stations Conducted at Least One Test	7,766

**9. Active Technicians**

		Technician Count	Daily Average
EA	Both Endorsement	10,740	6,081
EA	Gas Endorsement	18	0
EB	Both Endorsement	58	0
EB	Gas Endorsement	578	0
GU	Both Endorsement	20	0

**10. Inspections Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	397,901	48.92	36,068	48.73	433,969	48.91
Test and Repair	201,292	46.50	78,148	43.91	279,440	45.78
Test and Repair Dealer	12	34.67	5,256	47.28	5,268	47.25
Referee	566	30.00	178	30.00	744	30.00
Gold Shield in Enhanced Area	24,272	47.00	7,131	43.13	31,403	46.12
Gold Shield in Basic Area	10	71.40	6,340	36.17	6,350	36.23
Gold Shield in COO Area	407	52.04	3,768	47.56	4,175	48.00

**11. Repair Costs**

	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,277	22.50	<b>24,246</b>	<b>196.83</b>
	\$51-150	6,522	100.17		
	\$151-250	4,063	199.10		
	\$251-450	3,974	335.21		
	Over \$450	2,410	752.75		
Cap Repairs	\$0-50	183	27.05	<b>2,767</b>	<b>309.08</b>
	\$51-150	393	105.64		
	\$151-250	529	203.37		
	\$251-450	1,001	345.60		
	Over \$450	661	537.41		
Total Repairs	\$0-50	6,788	22.72	<b>25,107</b>	<b>224.14</b>
	\$51-150	5,841	100.66		
	\$151-250	4,344	199.62		
	\$251-450	4,887	338.78		
	Over \$450	3,247	727.58		

**12. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
Cap Repairs	2,767	309.08

**13. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	48	6	1	0	1	4	2	0

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Basic	Test Only	41	9	3	1	3	6	4	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	12	2	2	0	0	2	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	390	35	1	3	19	8	8	3
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	493	43	5	2	21	13	8	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	19,350	2,564	377	153	962	1,310	651	281
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	88	9	1	30	47	6	1
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	95	7	2	0	0	4	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	312	326	62	134	67	172	107	189
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	163,920	18,027	2,373	904	6,612	9,140	4,752	1,674
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	500	28	4	0	19	5	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	343,609	61,475	12,912	3,386	12,180	42,343	20,466	6,536
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	41	5	1	0	0	3	3	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	36	6	0	1	1	2	2	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,508	584	130	28	131	396	178	62
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	1	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	13	14	3	6	3	10	7	8
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,048	3,095	590	177	674	2,037	941	318
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	52	6	0	0	5	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,104	1,713	351	113	372	1,125	523	233
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,661	293	56	15	98	167	88	35

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	54	3	0	9	41	6	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	92	56	10	14	13	33	15	35
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	18,046	1,858	250	87	753	908	413	172
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	14,528	1,932	380	106	665	1,137	487	206
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,343	836	196	66	144	396	362	126
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	163	22	5	2	3	16	5	3
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,009	463	104	34	125	211	207	72
Two Speed Idle (TSI)	Basic	Government Fleet	0	9	1	0	4	3	2	0
Two Speed Idle (TSI)	Basic	Referee	43	35	10	12	10	19	12	17
Two Speed Idle (TSI)	Basic	Test and Repair	41,457	5,367	1,221	315	1,293	2,505	2,154	631
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,655	198	44	5	68	72	64	25
Two Speed Idle (TSI)	Basic	Test Only	6,476	1,071	294	57	260	563	322	139
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	91	35	10	2	5	17	14	6
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,674	365	131	25	45	236	151	48
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	120	34	10	4	7	19	13	7
Two Speed Idle (TSI)	Change of Ownership	Referee	2	10	3	5	2	5	7	7
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,970	286	81	30	64	155	113	49
Two Speed Idle (TSI)	Change of Ownership	Test Only	748	109	28	6	20	60	40	11
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	27	3	1	0	1	2	1	1
Two Speed Idle (TSI)	Enhanced	Test and Repair	298	21	4	1	8	7	8	1
Two Speed Idle (TSI)	Enhanced	Test Only	182	21	6	2	9	8	7	3
Two Speed Idle (TSI)	Partial	Test and Repair	16	3	1	0	1	2	0	0
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	351	51	15	4	19	22	17	5
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	913	92	33	9	23	49	33	15
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	226	25	5	4	8	9	8	7
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	0	0	1	2	2	0
Two Speed Idle (TSI)	Unknown Program	Referee	10	6	4	0	1	5	1	3

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Two Speed Idle (TSI)	Unknown Program	Test and Repair	2,797	290	52	22	106	104	98	40
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	583	34	2	1	25	2	6	1
Two Speed Idle (TSI)	Unknown Program	Test Only	191	34	8	3	11	18	5	5

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